

Case Type	Full Height Glass Door			
Model Designation	FDL			
File Reference	1251			
Document Issue	1	26-09-13	LRC	First Issue
	2	28-11-13	LRC	Updated R404A Information.

cabinet **TECHNICAL DATA**

Cabinet Technical Data Sheet – FDL

Product Type	Frozen Food / 3L1
Product Temperature	-18°C
Maximum Design Ambient	25°C @ 60%RH

Case Length [m]	5 Dr (3.90)	4 Dr (3.12)	3 Dr (2.34)	2 Dr (1.56)
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Refrigeration Data

Refrigeration Duty (per 24hrs) [kW]	2.50	1.99	1.49	0.99
Evaporating Temperature [°C]	-34	-34	-34	-34
R404A AKV Expansion Valve Size	No5	No4	No4	No3
R404A T2 Orifice Size	No3	No3	No2	No1
Evaporator Liquid Capacity @ 25% R404A [kg]	3.40	2.69	1.98	1.28
Refrigeration Pipe Tail – Liquid	3/8"	3/8"	3/8"	3/8"
Refrigeration Pipe Tail – Suction	7/8"	7/8"	7/8"	7/8"

Electrical Data (@ 230V 50Hz)

	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
Defrost Heaters	4900	21.3	3800	16.5	2750	11.95	1700	7.4
Fans (EC EBM)	35	0.15	28	0.12	21	0.09	14	0.06
Trim Heaters (Max)	615	2.67	576	2.5	380	1.65	288	1.25
Solenoid Valve / Controller	10	0.04	10	0.04	10	0.04	10	0.04
Lights (LED)	150	0.65	125	0.54	100	0.43	75	0.33
Maximum Load – Electric Defrost	5710	24.81	4539	19.7	3261	14.16	2087	9.08

Electrical Data (@400V 3ph 50Hz)

	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Maximum Load – Electric Defrost	3.5	11	11	3.2	8.5	8.5	2.2	6	6	1.7	4	4

Miscellaneous Data

Refrigeration Connections	Top of Cabinet LHS
Electrical Connection	Underside of Cabinet LHS

Set-Up Data**

Electric Defrost

Cut in Temperature [°C]	-22
Differential [K]	2
N° Defrosts (per 24hrs)	2
Maximum Defrost Time [mins]	60
Defrost Termination Temp (coil probe) [°C]	1
Drain Down Time [mins]	2
Fans in Defrost (slow speed in defrost)	OFF
Cabinet Temperature Ratio (%)	50
Superheat [K]	4
Temp to Turn Fan ON After Defrost [°C]	-15
Time to Turn Fan ON After Defrost [min]	10

NOTES! ** Set-up data is for guidance only. Final settings to be determined by commissioning contractor.
*** If End Case ADD 143W (0.62A) per Cabinet for End Glazed units only.

Cabinet Technical Data Sheet – FDL

Product Type	Frozen Food / 3L1
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Refrigeration Data

Refrigeration Duty (per 24hrs) [kW]	2.50	1.99	1.49	0.99
Evaporating Temperature [°C]	-31	-31	-31	-31
R744 AKV Expansion Valve Size	No3	No2	No2	No1
Evaporator Liquid Capacity @ 25% R744 [kg]	2.92	2.31	1.70	1.10
Evaporator Liquid Capacity @ 90% R744 [kg]	10.50	8.32	6.14	3.95
Refrigeration Pipe Tail – Liquid	3/8"	3/8"	3/8"	3/8"
Refrigeration Pipe Tail – Suction	1/2"	1/2"	1/2"	1/2"

Electrical Data (@ 230V 50Hz)

	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
Defrost Heaters	4900	21.3	3800	16.5	2750	11.9	1700	7.4
Fans (EC EBM)	35	0.15	28	0.12	21	0.09	14	0.06
Trim Heaters (Max)	615	2.67	576	2.50	380	1.65	288	1.25
Solenoid Valve / Controller	10	0.04	10	0.04	10	0.04	10	0.04
Lights (LED)	150	0.65	125	0.54	100	0.43	75	0.33
Maximum Load – Electric Defrost	5710	24.81	4539	19.7	3261	14.11	2087	9.08

Electrical Data (@400V 3ph 50Hz)

	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Maximum Load – Electric Defrost	3.5	11	11	3.2	8.5	8.5	2.2	6	6	1.7	4	4

Miscellaneous Data

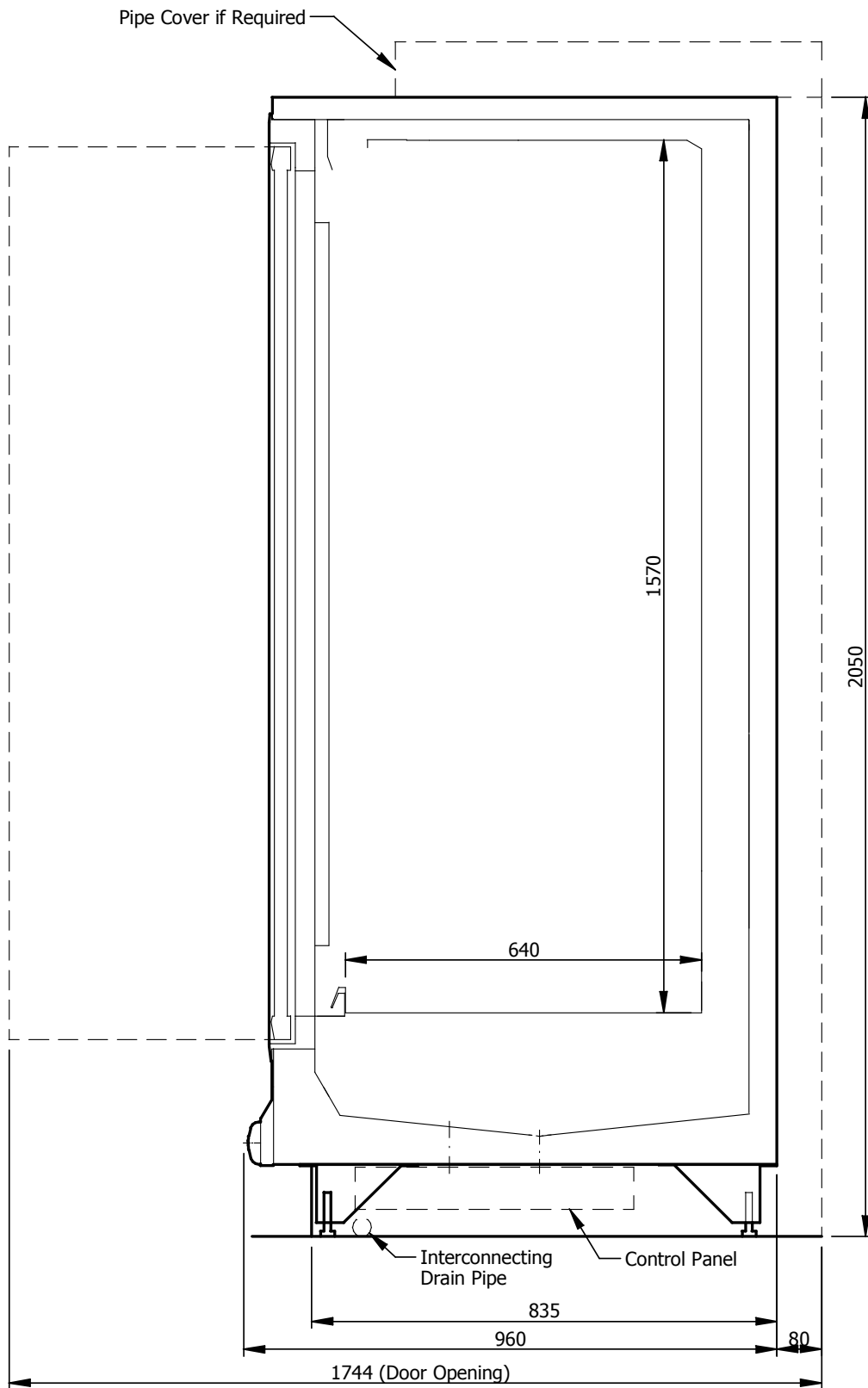
Refrigeration Connections	Top of Cabinet LHS
Electrical Connection	Underside of Cabinet LHS

Set-Up Data**

	Electric Defrost
Cut in Temperature [°C]	-22
Differential [K]	2
N° Defrosts (per 24hrs)	2
Maximum Defrost Time [mins]	60
Defrost Termination Temp (coil probe) [°C]	1
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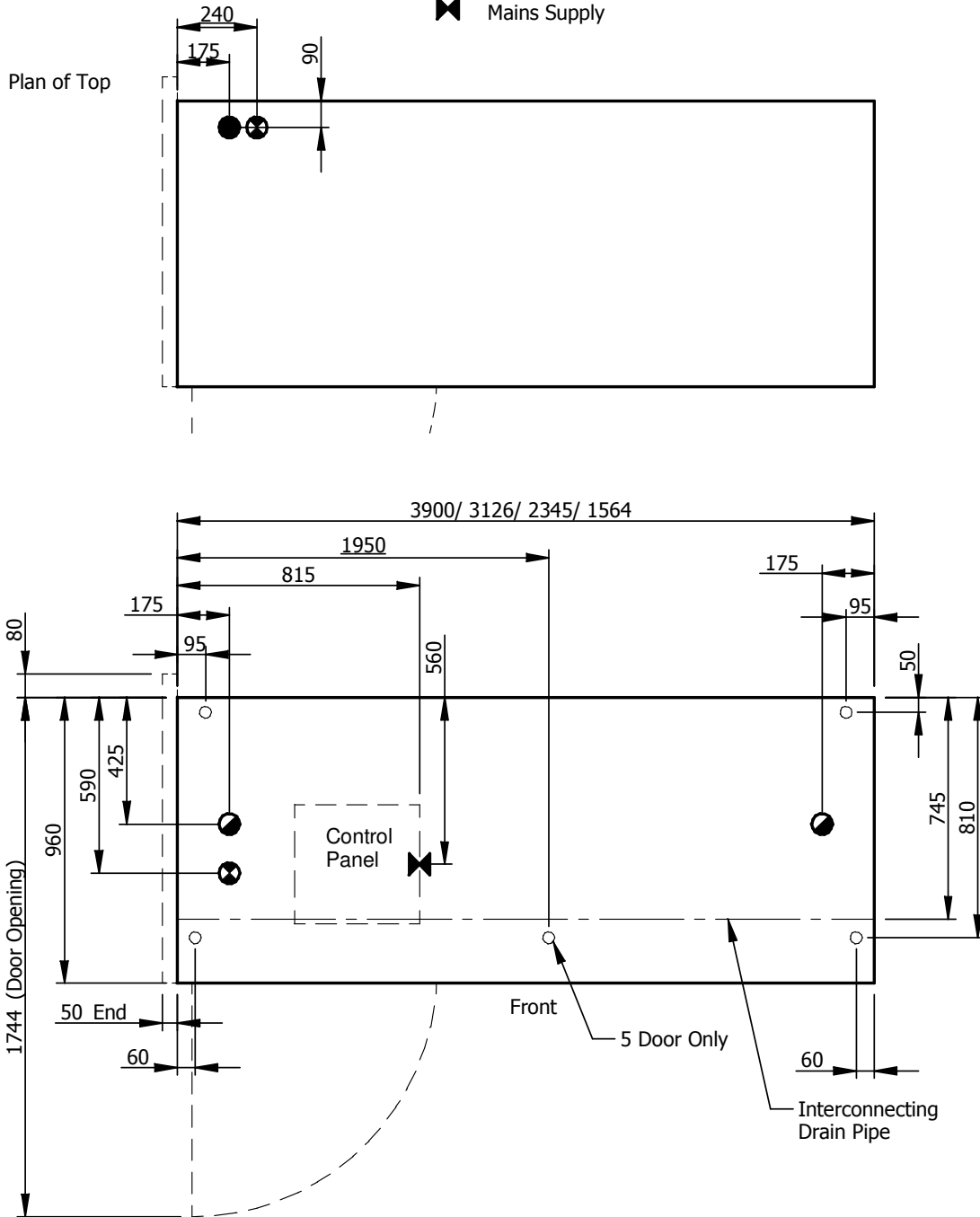
Section Drawing – FDL



Ref:- DS1157-01

Plan Drawing – FDL

- KEY
- Feet Positions
 - Refrig. Outlet
 - ◐ Drain Outlet
 - ⊗ Elect. Outlet
 - ⊕ Mains Supply



Plan of Base

Ref:- DP1157-01